

CHERNKAVSKIY, N.B.

Clothes imprint on the skin at the bullet exit. Sud.-med.
ekspert. 7 no. 2:45-46 Ap-Je '64. (MIRA 17:7)

KOVAL', A.G.; CHERKAVSKIY, N.B.

Hemorrhage in the myocardium in direct heart massage.

Sud.-med.ekspert. 7 no. 2:49-50 Ap-Je '64. (MIRA 17:7)

CHEKAVSKIY, N.B.; STURCHENKO, A.G.

Significance of struvite crystals in serous cavities of cadavers
recovered from the sea. Sud.-med. ekspert. 8 no.1:18-20 Ja-Mr '65.
(MIRA 18:5)

CHERKAVSKIY, O.F.

Some characteristics of the stomatal apparatus in corn.
Bot. zhur. 48 no.5:751-755 My '63. (MIRA 17:1)

1. Ukrainskiy nauchno-issledovatel'skiy institut fiziologii
rasteniy, Kiev.

PAVLENKO, V.V., nauchnyy sotrudnik; MAKASHINA, G.V., starshiy nauchnyy
sotrudnik; CHERKAVSKIY, O.F.; DAVLETSHINA, A.G. (Tashkent);
YEFIMOVA, L.F. (Tashkent)

Brief news. Zashch. rast. ot vred. i bol. 9 no.12:48-49 '64.
(MIRA 18:4)

1. Botanicheskiy sad i nepetrovskogo universiteta (for Pavlenko).
2. Kaliningradsкая sel'skokhozyaystvennaya opytная stantsiya (for Makashina).
3. Institut fiziologii rasteniy AN UkrSSR (for Cherkavskiy).

PRIOROV, N.N.; ANDREYEV, S.V.; CHERKASSOVA, T.I.

Significance of cobalamine for the restoration of functions of the human arm following rupture of peripheral nerves. Dokl. AN SSSR 122, no. 2:312-315 S '58. (MIRA 11:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut travmatologii i ortopedii. 2. Deystvitel'nyy chlen AMN SSSR (for Priorov).

(COBALAMINE)

(EXTREMITIES, UPPER--INNERVATION)

(REGENERATION(BIOLOGY))

CHERKAVSKIY, N.B.

Formation of methemoglobin in the blood of corpses. Sud-med.
ekspert. 7 no.4:3-8 O-D '64 (MIRA 18:1)

~~CHERKAVSKIY, Sergey Konstantinovich~~; SPENGLER, O.A., otvetstvennyy redaktor;
~~YASNOGORODSKAYA M.M.~~, redaktor; FLAUM, M.Ya., tekhnicheskiy redaktor.

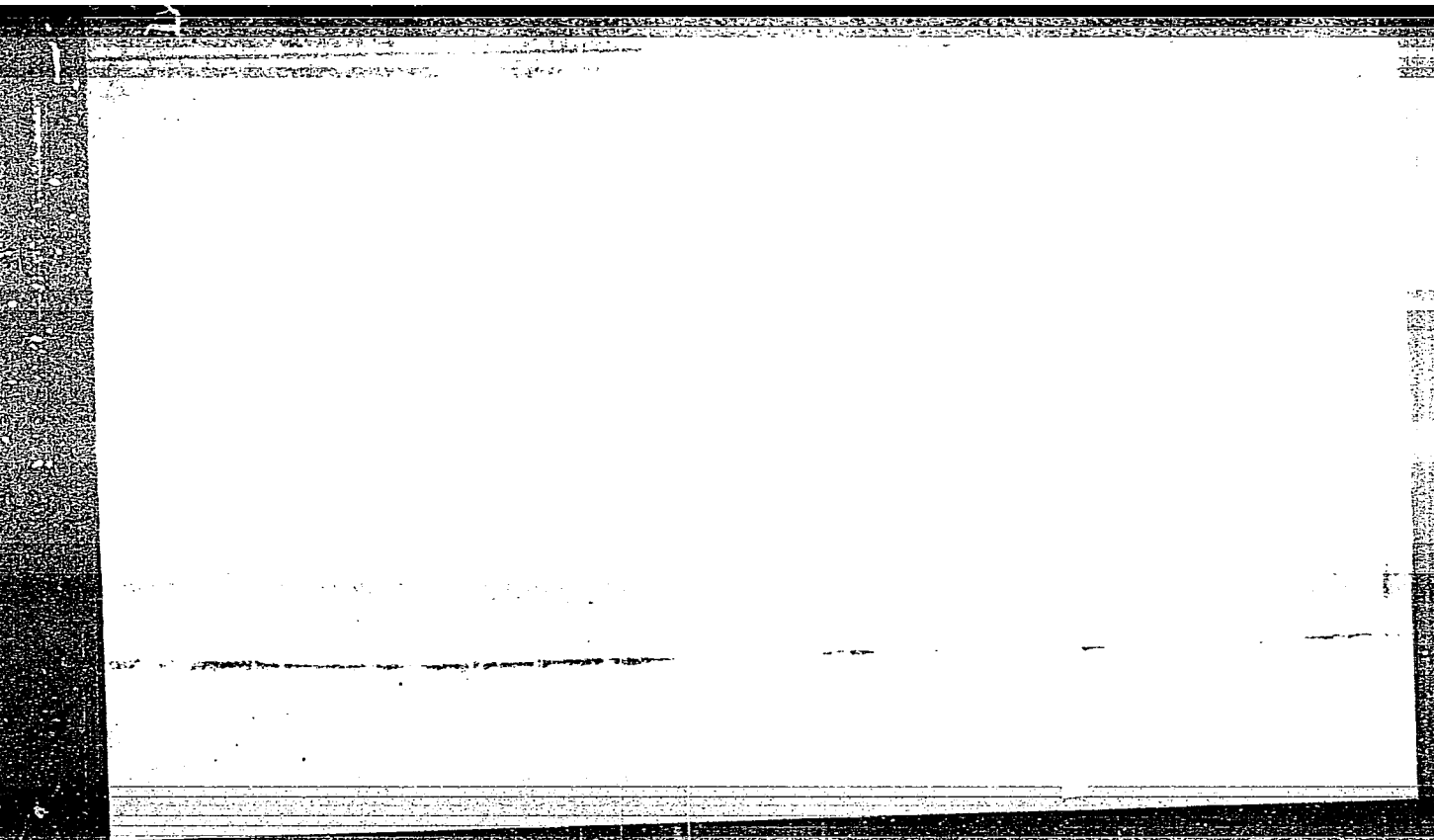
[Hydrology for observers] Gidrologiya dlia nabliudatelei. Leningrad,
Gidrometeor.izd-vo, 1956. 159 p. (MLRA 10:4)
(Hydrology)

URYVAYEV, V.A., kand.tekhn.nauk, otv.red.; ALEKIN, O.A., red.; VELIKANOV,
M.A., red.; BLIZNYAK, Ye.V., red.; BORSUK, O.N., kand.geogr.nauk,
red.; DAVYDOV, L.K., red.; DOMANITSKIY, A.P., red.; KALININ, G.P.,
red.; KRITSKIY, S.N., red.; KUDELIN, B.I., red.; MANOIM, L.F., red.;
MENKEL', M.F., red.; ORLOV, B.P., red.; POPOV, I.V., red.; PROSKU-
RYAKOV, A.K., red.; SOKOLOVSKIY, D.L., red.; SPENGLER, O.A., red.;
CHERBOTAREV, A.I., red.; CHERKAVSKIY, S.K., red.; GROSMAN, R.V., red.;
SERGEYEV, A.N., tekhn.red.

[Proceedings of the third All-Union Hydrological Congress] Vsesoiuznyi
gidrologicheskii s"ezd. 3rd, Leningrad, 1957. Trudy. Leningrad, gidro-
meteor. izd-vo. Vol.1 [General information, decisions, and papers
presented in plenary sessions] Obshchie svedeniia, resheniia i ple-
narye doklady. 1958. 242 p. (MIRA 12:1)
(Hydrology--Congresses)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308420015-8



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CIA-RDP86-00513R000308420015-8"

CHERKAYEV, V.G.; BALASHOV, V.M.

Study of the conditions of hydrogenation of geraniol to citronellol
in a batch-type autoclave. Trudy VNIISNDV no.6:5-14 '63.
(MIRA 17:4)

SHUPIKOVA, L.A.; CHERKAYEV, V.G.

β -Methylation of alcohols. Report No.1: Preparation of
hydratropic and 2-methyl-2-cyclohexylethyl alcohols. Trudy
VNIISNDV no.6:37-45 '63. (MIRA 17:4)

AVAKOVA, L.S.; KUSTOVA, S.D.; RUDOL'FI, T.A.; SEVERTSEV, V.A.; TITOVA, N.B.;
CHERKAYEV, V.G.; SHCHEDRINA, M.M.

Increasing the menthol content of low menthol peppermint oil.
Trudy VNIISNDV no.6:164-166 '63. (MIRA 17:4)

CHEKHAJEV, V. G.

3

Chem Abs v48
1-25-54
Pharmaceuticals
Cosmetics, Perfumery

✓ Production of a synthetic citronellal from domestic raw materials. A. A. Bag, V. G. Cherkhaev, and T. A. Dillman. *Maslobolno-Zhirovaya Prom.* 18, No. 9, 20-2(1953).—Well-known synthesis of citronellal from citral (I) or citronellol with domestic plants as a source of I (dragon's head and lemon-wormwood) and its yield are discussed. V. N. K.

CHERKAYEV, V.G.

BAG. A.A.; CHERKAYEV, V.G.

Catalytic isomerization of cis- β -decalol with m.p. of 105° to
cis- β decalol with m.p. of 17°. Trudy VNIISNDV no.2:17-18 '54.
(MIRA 10:7)

(Naphthol) (Isomerization)

CHERKAYEV, V.G.; BAG, A.A.; PERSPELINA, S.A.

Preparation of hydroxycitronellal from synthetic citronella.
Trudy VNIISNDV no.2:35-42 '54. (MLRA 10:7)
(Citronellal)

CHERKAYEV V.G.

Dehydrogenation of alcohols and amines. V. G. Cherkayev. U.S.S.R. 103,726, Aug. 25, 1958. The substance to be dehydrogenated mixed with a suitable catalyst is continuously passed through a container the temp. of which is maintained at the level required for dehydrogenation. To the treated substance and catalyst mixt. is also added a H acceptor and a solvent.

M. Hosh

Cherkayev, V. G.

62-2-26/28

AUTHORS:

Ponomarenko, V. A., Cherkayev, V. G.,
Petrov, A. D., Zadorozhnyy, N. A.,

TITLE:

H₂ PtCl₆ as Catalyst in the Addition Compound Reaction of Silane Hydrides With Unsaturated Compounds (Platinokhloristovodorodnaya kislota kak katalizator v reaktsii prisoyedineniya gidridsilanov k nepredel'nyy soyedineniyam)

PERIODICAL:

Izvestiya AN SSSR Otdeleniye Khimicheskikh Nauk, 1958, Nr 2,
pp. 247-248 (USSR)

ABSTRACT:

In earlier reports (references 1-4) the authors already dealt with the problems of the selection of catalysts for the addition compound reaction of silane hydrides with olefines as well as with the investigation of the reaction itself. A paper (reference 5) already touches upon these problems and some of the conclusions are in agreement with those obtained by the authors in this work. One of the most important observations in the above-mentioned paper consists of the discovery of the increased catalytic activity of the investigated reaction of H₂PtCl₆ in comparison with other catalysts of a metal basis (eighth group). In the present paper the authors describe the performed addi-

Card 1/2

H₂PtCl₆ as Catalyst in the Addition Compound Reaction of Si-
lane Hydrides With Unsaturated Compounds

62-2-26/28

tion CH₃SiHCl₂ with ethylene, propylene and acetylene in the presence of chloroplatinic acid (at room temperature) and that with CH₂=CF₂ and CF₂=CF₂ at 160°C. It was further found that in comparison with platinum on the carriers the chloroplatinic acid (in the case of CH₂=CF₂) increases the yield of the products of the addition by the 3-4 fold amount. In the case of CH₂=CH₂, CH₂=CH-CH₃ and CH≡CH an almost quantitative yield is obtained. There are 2 tables, and 7 references, 6 of which are Slavic.

ASSOCIATION: Institute for Organic Chemistry imeni N.D. Zelinskiy AN USSR
(Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR)

SUBMITTED: October 12, 1957

AVAILABLE: Library of Congress

1. Silane hydrides-Chemical reactions
2. Olefines-Chemical reactions
3. Chloroplatinic acid catalyst-Applications

Card 2/2

PETROV, A.D.; ANDRIANOV, K.A.; GOLUBTSOV, S.A.; PONOMARENKO, V.A.;
CHERKAYEV, V.G.; TARASOVA, A.S.; VAVILOV, V.V.; ZADOROZHNYI, N.A.;
POPELEVA, G.S.

Continuous method of catalytic addition of hydrosilanes to unsaturated compounds. Khim.nauk i prom. 3 no.5:679-681 '58.

1. Institut organicheskoy khimii im. V.D. Zelinskogo.
(Silane) (Unsaturated compounds)

BAG, A.A.; CHERKAYEV, V.G.; PEREPELKINA, S.A.

Selective hydrogenation of citral. Trudy VNIISMDV no.4:61-63
'58. (MIRA 12:5)

(Citral) (Hydrogenation)

CHERKAYEV, V. G.

V. A. Ponomarenko, V. G. Cherkayev, G. V. Odabashyan, N. A. Zadorozhnyy and
A. D. Petrov, "The Catalytic Adding of Hydrosilanes to Unsaturated Compounds."

Report presented at the Second All-Union Conference on the Chemistry and
Practical Application of Silicon-Organic Compounds held in Leningrad from
25-27 September 1958.

Zhurnal prikladnoy khimii, 1959, Nr 1, pp 238-240 (USSR)

87123

5/062/12/123/1236
B023/B064

S.3700

2209, 1273, 1236

AUTHORS: Ponomarenko, V. A., ~~Cherkayev, V. O.~~, and Zadorozhnyy, N. A.

TITLE: Characteristics of the Addition of Alkyl Chloro Silicon Hydrides to Unsaturated Compounds in the Presence of Platinum Hydrochloric Acid

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1960, No. 9, pp. 1610-1618

TEXT: The authors studied the course of the addition reaction with platinum hydrochloric acid being the catalyst. In the competitive addition of hydride silanes to ethylene in the presence of H_2PtCl_6 , the silane activity was determined both by the induction effect and the steric effect of the silyl groups. In this connection, the role of the steric factor is of special importance in contrast to the addition in the presence of platinum on carriers. It was found that the substituents exert a deactivating effect upon the capability of the double bond of the unsaturated compound to add silicon hydride in the presence of H_2PtCl_6

Card 1/3

87123

Characteristics of the Addition of Alkyl Chloro S/062/60/000/009/010/021
Silicon Hydrides to Unsaturated Compounds in B023/B064
the Presence of Platinum Hydrochloric Acid

and Pt on carriers. This is said to be due to the steric and induction effect of these substituents. The data known at present on the behavior of the silicon hydrides toward unsaturated compounds both in the presence of H_2PtCl_6 and also of Pt on carriers, are in a better agreement with the assumption of a radical than of an ionic mechanism. This process is characteristic because of the particular role of the catalyst surface or the forces of complex formation. A convenient and highly productive method of synthesizing a number of organosilicon compounds of practical importance was worked out on the basis of the addition reaction of silicon hydrides to unsaturated compounds in the presence of H_2PtCl_6 and Pt on carriers. This includes: addition of methyl chloro silane to vinylidene fluoride; addition of methyl dichloro silane to trifluoro chloro ethylene; addition of methyl chloro silane to tetrafluoroethylene. Table 5 shows the conditions and results of the most characteristic experiments. The addition of silicon hydrides to olefines and acetylene in the presence of platinum hydrochloric acid is given in Table 6. N. S. Andreyev has taken the spectra of silicon hydrides for which the authors thank him. There are

Card 2/3

Characteristics of the Addition of Alkyl Chloro
Silicon Hydrides to Unsaturated Compounds in
the Presence of Platinum Hydrochloric Acid

87123

S/062/60/000/009/010/021
B023/B064

4 figures, 6 tables, and 19 references: 12 Soviet, 6 US, and 1 British.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii
nauk SSSR (Institute of Organic Chemistry imeni N. D.
Zelinskiy of the Academy of Sciences USSR)

SUBMITTED: April 20, 1959

X

Card 3/3

BAG, A.A.; BLIZNYAK, N.V.; BULANOVA, A.V.; KUSTOVA, S.D.; CHERKAYEV, V.G.

Odorous substances from sclareol. Report No.2: Possibility for
converting the lactone 1,1, 6, 10-tetramethyl-6-oxy- β -methylene-
carboxydecalin into 1, 1, 6, 10-tetramethyl-6-oxy-5 (β -oxy)-
ethyldecalin by catalytic hydrogenation. Trudy VNIISNDV no.5:
14-16 '61. (MIRA 14:10)

(Odorous substances)

(Naphthalene)

CHERKAYEV, V.G.

S/661/61/000/006/019/081
D205/D302

AUTHORS: Tarasova, A. S., Petrov, A. D., Andrianov, K. A., Golubtsov, S. A., Ponomarenko, V. A., Cherkayev, V. G., Zadorozhnyy, N. A. and Vavilov, V. V.

TITLE: Continuous addition of hydrochlorosilanes to unsaturated compounds

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh soedineniy; trudy konferentsii, no. 6, Doklady, diskussii resheniya. II Vses. Konfer. po khimii i prakt. prim. kremneorg. Soyed., Len. 1958. Leningrad, Izd-vo AN SSSR. 1961, 99-100

TEXT: For practical application of the addition reactions of methyl dichlorosilane, ethyl dichlorosilane and trichlorosilane to liquid and gaseous unsaturated compounds an apparatus was designed and optimum conditions of synthesis were established. The chlorosilane and the gas are fed into a reactor. The products are discharged via a cooler into a receiver equipped with a reflux. Duration 1/2

Continuous addition of ...

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S/661/61/000/006/019/081
D205/D302

ing the reaction the reactor and cooler are cooled by water, the receiver and the reflux by brine. The arrangement was tested on the reaction of ethylene with methyl dichlorosilane and ethyl dichlorosilane. The experiments have shown that in the 35 - 200°C temperature range the reaction is unchanged giving a 65 - 75% yield. No by-products are formed and the output is high (> 6 kg of methyl ethyl dichlorosilane/hr/l of reactor volume). The process is amenable to automation owing to its insensitivity to temperature changes. There are 1 figure and 1 table.

Card 2/2

CHERKAYEV, V.G., kand.tekhn.nauk; BAG, A.A. kand.tekhn.nauk; KONSTANTINOV,
A.A.; BLIZNYAK, N.V.

Preparation of a copper-chromium catalyst by the thermal treatment
of the copper ammonium salt of chromic acid, pulverized in a gas
stream. Masl.-zhir.prom. 27 no. 27-29 Ja '61. (MIRA 14:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh
i natural'nykh dushistykh veshchestv.
(Catalysts) (Chromium) (Copper)

CHERKAYEV, V.G.; FILYAND, A.I.; SEVERTSEV, V.A.; BALASHOV, V.M.;
KURICHEV, V.A.; MOSHKIN, M.I.

Process of the liquid phase selective hydrogenation of geraniol
in a flow system. Trudy VNIISNDV no.6:128-141 '63. (MIRA 17:4)

TOVBIN, I.M., inzh.; PETROV, N.A., kand. tekhn. nauk; MAYOROV, D.M.,
kand. khim. nauk; STERLIN, B.Ya., kand. tekhn. nauk; NEVOLIN, F.V.;
VARLAMOV, V.S., kand. tekhn. nauk; CHERKAYEV, V.G., kand. khim.
nauk; BLIZNYAK, N.V., inzh.; ORECHKIN, D.B., kand. tekhn. nauk;
RADCHENKO, Ye.D., inzh.; SHEPOT'KO, O.F., inzh.

Obtaining higher unsaturated alcohols by the method of selective
hydrogenation of whale oil. Masl.-zhir. prom. 29 no.3:18-21
Mr '63. (MIRA 16:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimi-
cheskikh protsessov (for Mayorov). 2. Vsesoyuznyy nauchno-
issledovatel'skiy institut zhirov (for Sterlin, Nevolin,
Varlamov). 3. Vsesoyuznyy nauchno-issledovatel'skiy institut
sinteticheskikh i natural'nykh dushistykh veshchestv (for
Orechkin, Radchenko, Shepot'ko).
(Whale oil) (Alcohols)

ORLOV, A.V.; GEL'FGAT, Ya.A.; CHERKAYEV, V.V.; KEGHEKEZYAN, A.N.

Structures of extra-deep wells. Trudy VNIIBT no.9:3-13 '63.
(MIRA 17:9)

GEL'FGAT, Ya.A.; ORLOV, A.V.; FINKEL'SHTEYN, G.E.; CHERKAYEV, V.V.

Establishing certain empirical dependence of bit-operation
characteristics on the parameters of drilling practices.

Trudy VNIIBT no.9:13-23 '63.

(MIRA 17:9)

VORONOV, I.S., gornyy inzh.; KOVALENKO, V.A., gornyy inzh.; BEKETOV,
P.Ye., gornyy inzh.; MATVEYEV, V.P., gornyy inzh.; NAGAYEV,
Kh.Kh., gornyy inzh.; SHMAKOV, P.I., gornyy inzh.; CHERKAYEVA,
N.G., gornyy inzh.

Conveying and loading ore with a vibrating feeder. Gor.
zhur. no.8:28-31 Ag '64. (MIRA 17:10)

CHERKAZ'YANOVA, V.G., red.; MOISEYEV, I.N., red.; BRAYNINA, M.I., tekhn.
red.

[Hydrological yearbook]Gidrologicheskii ezhegodnik. Leningrad,
Gidrometeor. izd-vo. 1959. Vol.4. [Basin of the Caspian Sea (exclusive
of the Caucasus] Bassein Kaspijskogo moria (bez Kavkaza i Srednei
Azii). Nos.5-7. [Basin of the Kama River]Bassein r. Kamy. Pod red.
V.G.Cherkaz'ianovoi. 1961. 317 p. (MIRA 14:9)
(Baltic Sea region--Hydrology) (Kama Valley--Hydrology)

CHERKE, N.

Leading chauffeurs and motor pools will participate in the All-
Union Agricultural Exhibition. Avt.transp. 32 no.6:5-6 Je '54.
(Automobile drivers) (MLRA 7:9)

CHERNIK, N.

Simplifying the computation of drivers' wages. Avt.transp. 32 no.7:
10 J1 '54. (MLRA 7:9)

1. "Soyuzzagottrans"
(Wages)

CHERKE, N.

Outstanding truck drivers and truck fleets participate in the 1955
All-Union Agricultural Exhibition. Avt.transp.33 no.7:37 J1'55-
(Automobile drivers) (MIRA 8:12)

CHEKKE, N.; DEMENT'YEV, V.

Labor productivity has increased. Avt.transp. 38
no.8:29-30 Ag '60. (MIRA 13:8)
(Motor vehicles—Maintenance and repair)

MIZINOV, V.; CHERKE, N.; DUBNIKOVA, M.

Answering questions on wages. Avt.transp. 40 no.4:34-36 Ap
'62. (MIRA 15:4)

1. Ministerstvo avtomobil'nogo transporta i shosseynykh dorog
RSFSR.
(Transportation, Automotive) (Wages)

MIZINOV, Vladimir Nikolayevich; DEMENT'YEV, Vasilii Fedorovich;
DUBENIKOVA, Mariya Pavlovna; CHERKE, Nina Alekseyevna;
KASHMANOV, V.N., red.

[Organization of labor and wages in automotive transportation; a reference aid] Organizatsiya truda i zarabotnoi platy na avtomobil'nom transporte; spravochnoe posobie. Moskva, Transport, 1965. 246 p. (MIRA 18:4)

DUBNIKOVA, Mariya Pavlovna; MIZINDV, Vladimir Nikolayevich; CHERKE,
Nina Alekseyevna; YAVLOKOV, V.I., red.; BODANOVA, A.P.,
tekhn. red.

[Wages of automobile drivers] Oplata truda shoferov avto-
mobilei. Moskva, Avtotransizdat, 1963. 107 p.
(MIRA 16:8)

(Wages--Automobile drivers)

CHEKES, A. A.

"Certain Techniques for an Objective Calculation of the Pain Syndrome During Affections of the Peripheral Nerve Trunks (Sciatic Nerve)."
Cand Med Sci, Central Inst for the Advanced Training of Physicians,
Moscow, 1954. (RZhBiol, No 3, Feb 55)

SO: Sum No 631, 26 Aug 55 - Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions.
(14)

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX	
CHERKES, A.I. QA		11 H The sensitivity of the organism to drugs in acid and alkaline conditions. R. S. Rosovska and A. I. Cherkas. <i>Med. expl.</i> (Ukraine) No. 1, 50 (1934). Sodium salicylate (20% soln.) was introduced subcutaneously, 0.2 g. per kg., and the salicylic acid detd. in the blood and urine at intervals during 48 hrs. During the administration of inhaled food the max. salicylic acid content in the blood is reached in 1-2 hrs., then it drops and in 24 hrs. the blood is free from it. In urine the salicylates are eliminated in 24 hrs. in 50% of cases. The total amount eliminated is 12-20% of that injected. During the administration of acid foods the rise in concn. is much slower and the max. is reached later than in the previous case. The elimination is similar. In case of alk. foods the max. concn. is reached in 1 hr., in 4-5 hrs. only traces of salicylates are found, and the total elimination is 35-70%. L. Nasarevich	
ASA-5LA METALLURGICAL LITERATURE CLASSIFICATION		RECORD NUMBER	

1

CHERKEZ, A. I.

ca

11 L

PROCESSING AND PRESENTATION

The sensitivity of the heart to cardiac glucosides in anoxemia. A. I. Cherkez and E. S. Rozovskaya. *J. Physiol.* (U. S. S. R.) 25, 551-558 (English, 1968) (1968).

Anoxia in dogs results in an increased sensitivity to strophanthidin G (II) and a considerably less marked sensitivity to digitoxin (III), when administered intravenously. The elimination of I is delayed, its curve resembling that of II, the elimination of which is unaltered as compared with normal animals. S. A. Karida

458 564 DETAILING LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH ORDERS																																																																																																						
CHERKES, A. I.		11/16																																																																																																								
Experimental investigations of the pharmacology of the heart. 1. The effect of strophanthin on the carbohydrate metabolism of the heart muscle. A. I. Cherkas and M. A. Angarskaya. <i>Farmakol. i Toksikol.</i> 2, No. 5, 10-7 (1939); <i>Khim. Referat. Zhur.</i> 1940, No. 4, 41-2. Toxic doses of strophanthin decrease the content of glycogen and increase the content of lactic acid. A single administration of small (therapeutic) doses of strophanthin increases the amt. of glycogen without affecting the level of lactic acid. Repeated administration of small doses of strophanthin increases the content of glycogen and decreases the amt. of lactic acid. The effect of strophanthin is connected with the vagus-type effect of the digitalis-group substances. W. R. Henn																																																																																																										
Chief: Prof. A. I. Cherkas, Pharmacological Dept. of the Ukrainian Inst. of Experimental Medicine, -1939.																																																																																																										
ASB-11A METALLURGICAL LITERATURE CLASSIFICATION																																																																																																										
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GROUPS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100						

CHENKES, A. I.

PROCESSES AND PROPERTIES

Heart metabolites and heart metabolism. A. I. Chenkes. *Acta Med. P. R. S. S. J.* 185 69 (1970) (German). Injection of toxic doses of strophanthin intravenously into rats or dogs decreased the glycogen content slightly and increased the lactic acid content of heart muscle very markedly. Heart muscle of the dog is much more resistant toward change in its glycogen content than is the heart muscle of the rat. Small (physiol.) doses of strophanthin or digitoxin increase the glycogen content of heart muscle slightly. The lactic acid content is not changed significantly. When defibrinated blood was circulated through the surviving dog heart, 3.5 mg. of lactic acid was removed each min. Nontoxic doses of strophanthin about doubled the lactic acid retention. The max. retention occurred 20-45 min. after giving the drug. Acetylcholine lowered the O consumption of heart muscle and favored the assimilation processes, while adrenaline increased the O consumption and favored dissimilation processes. Acetylcholine increased the glycogen content of heart muscle, but the lactic acid remained within normal limits. Adrenaline decreased the glycogen content of the muscle.

Felix Saunders

11 H

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

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CHERAKES, A. I.

Toxicologic principles in chemical warfare. 7. ispr. i dop. izd. Moskva,
Medgiz, 1943. 395 p.

CHERKES, A. I. 13

04

PROCESSES AND PROPERTIES INDEX

The basic principles of the treatment of poisoning by war gases. A. I. Cherkas. *Farmakol. i Toksikol.* 6, No. 5, 1-13(1943).—A review. H. L. Williams

Prof., Chief, Chair of Pharmacology of the First Medical Institute, -1942

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

13

CHERKES, A leksander Il'ich

"Toxicology of War Gases, " 1944.

CHARKIN, A. I., Head, Dept., Pharmacology, "Iev Med. Inst., -c1946-.

25622 Charke, A. I. Netterofob - Ineripa I Eye Ineripa Vroobah. Delo,
1946, No. 6, S.P.S. 463-68.

SC: Netterofob Zhurnal Stetov, No. 30, Moscow, 1946

(Mbr., Dept. Medico-Biol. Sci., Acad. Med. Sci., -c1946-. Cor. Mbr., Acad. Med.
Sci., c 1946-48.)

CHEPKES, A. I.

Cherkes, A. I. - "N. P. Kravkov -- the founder of Russian pharmacology (1865-1924)",
(On the 25th anniversary of his death), Vracheb. delo, 1949, No. 5, paragraphs 63-66, with
portrait.

S O: U-4630, 16 Sept. 53, (Ietopis 'Zhurnal 'nykh Statey, No. 23, 1949).

~~CHEKES, A.I.~~; GORODINSKAYA, V.Ya.; KAGAN, Yu.S.

Pharmacology of sulfanilamides. Vop. fiziol. no.5:100-112 '53.
(MLRA 8:1)

1. Kiyevskiy meditsinskiy institut, kafedra farmakologii.
(SULFANILAMIDE,
pharmacol.)

CHERKES, A. I., Prof.

"Pharmacotherapy" State Medical Publishing House of the Ukrainian SSR, Kiev, 1954.

CHERKES, A.I.

[Pharmacotherapy; manual for physicians] Farmakoterapiia; posobie
dlia vrachei. Kiev, Gos. Meditsinskoe izd.-vo USSR, 1955. 435 p.
(PHARMACOLOGY) (MIRA 8:11)

DOMBROVSKAYA, A.M.; KREMENTULO, V.A.; ~~CHERKES, A.I.~~

Experimental investigations on the pharmacology of hypotensive drugs;
methonium derivatives. Fiziol.zhur. (Ukr.) 1 no.4:80-89 J1-Ag '55.
(MLRA 9:11)

1. Kiiv's'kiy medichniy institut im. akad. O.O.Bogomol'tsya, kafedra
farmakologii.

(MUSCLE RELAXANTS,

methonium cpds., pharmacol.)

CHERKES, H.I.

ALEKSEYENKO, I.P., dotsent, redaktor; SHAMRAY, Ye.F., professor, redaktor;
CHAYKA, Ye.I., professor, redaktor; MAN'KOVSKIY, B.N., professor,
redaktor; CHERKES, A.I., professor, redaktor; PRIMAK, F.Ya., professor,
redaktor; LIKHTENSHTEYN, Ye.I., dotsent, redaktor; FROL'KIS, V.V.,
dotsent, redaktor; GLUZMAN, F.A., redaktor; LOKHMATYY, Ye.G.,
tekhnicheskiy redaktor

[Pathology of the cardiovascular system in clinical treatment and
experiment] Patologiya serdechno-sosudistoi sistemy v kliniki i
eksperimente. Kiev, Gos. med. izd-vo USSR, 1956. 241 p. (MLRA 10:2)

1. Kiyev. Meditsinskiy institut imeni A.A.Bogomol'tsa. 2. Deystvitel'-
nyy chlen Akademii meditsinskikh nauk SSSR (for Man'kovskiy) 3.
Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Cherkas)
(CARDIOVASCULAR SYSTEM--DISEASES)

CHERNES, A. I., KREMENTULO, V. A., DOMBROVSKAYA, A. M., and STANKEVICH, V. V., Kiev

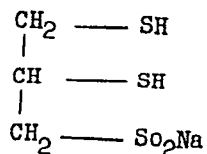
"Experimental Investigations of the Pharmacology of Hypotensive Drugs,"
a paper presented at the Fifth Conference of the Ukrainian Society of Physiologists, Biochemists, and Pharmacologists, 28 May - 2 June 1956, Khar'kov.

"The paper dwelt on the main pharmacological properties of certain derivatives of the methonium series. In experiments on cats, the preparations exhibited ganglioblocking action; while in acute experiments on rabbits the drugs under investigation caused a drop in blood pressure, the result of their blocking action on the sympathetic ganglia. In chronic experiments on rabbits suffering from experimental reflexogenic hypertonia the hypotensive action of hexatonide continued for 1.5 months. Hexatonide was also effective in renal hypertension. The addition of the benzoin radical to the hexamethonium radical not only prolonged the hypotensive action of the preparation, but also increased its toxicity."

CHERKES, A. I.

"Sulphydryl Compounds in the Therapy of Intoxications" by A. I. Cherkas and N. I. Luganskiy, Kiev, Ukrainian Scientific-Research Sanitary-Chemical Institute, Vrachebnoye Delo, No 1, Jan 57, pp 4-6

The article reports the development of a new preparation to replace British Anti-Lewisite, known as BAL, as an antidote in intoxications by arsenic compounds and compounds of other heavy metals. The preparation was synthesized by V. Ye. Petrun'kin and collaborating chemists and by A. I. Cherkas and collaborating chemists, and was given the name of unithiol ("unithiol"). Unithiol is a new synthetic dithiol -- sodium 2,3-dimercaptopropansulfonate with the following formula:



SYM.1322

CHH 3345 11.1

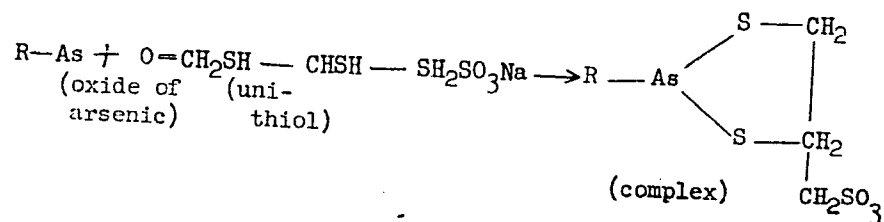
Unithiol is a white crystalline powder, stable in storage, and readily soluble in water. In experiments in vitro it reacted with compounds of arsenic and other heavy metals to form nontoxic products. Numerous experiments conducted on animals by V. I. Vitte-Drozdovskaya, A. I. Kagan, D. S. Lokantsev, N. I. Luganskiy, M. F. Mel'nikova, A. K. Pashevnikova, and A. I. Cherkes proved the high activity of unithiol when applied in various forms of intoxications by inorganic and organic arsenic compounds. Unithiol can be administered subcutaneously or orally. When applied orally, however, larger doses of the antidote are required.

V. Ye. Petrun'kin established that unithiol reacts with mercury, gold, and chromium to form nontoxic compounds. Investigations conducted on animals by G. A. Belonozhko established that unithiol was therapeutically active in various forms of poisoning with mercuric chloride. Good results were obtained by S. I. Ashbel', V. A. Tret'yakova, Ye. A. Drogichina, and A. K. Karimova who applied unithiol in the therapy of chronic intoxications caused by compounds of mercury, i.e., granozan, ethyl mercuric chloride, and others.

54M-1322

CHEKES AT

The reactions of unithiol with arsenic-containing substances can be represented as follows:



94M.132.2

CHERKES, A. I.

Sulfhydryl compounds were found to be effective therapeutic agents in a number of other intoxications, and in the prophylaxis and therapy of side reactions caused by some drugs. Experiments also established the role which modification of sulfhydryl groups play in the mechanism of the biological action of radioactive substances and in the pathogenesis of radiation sickness. This provides a basis for the study of the possibility of using thiol preparations as protective agents in radiation sickness. (U)

SCIA-1322

CHERKES, A.I., prof.; DOMBROVSKAYA, A.M.; KREMENTULO, V.A.

Experimental studies on the pharmacology of agents for regulating
vascular tonus. Vrach.delo no.1:1247-1249 D '58.

(MIRA 12:3)

1. Kafedra farmakologii (zav. - prof. A.I. Cherkas) Kiyevskogo me-
ditsinskogo instituta.

(VASOMOTOR DRUGS)

CHERKES, A.I., BRAVER-CHERNOBUL'SKAYA, B.S.

Unithiol, an antidote in cobalt poisoning [with summary in English].
Farm. i toks. 21 no.3:59-63 My-Je '58 (MIRA 11:7)

1. Otdel eksperimental'noy terapii (zav. - chlen-korrespondent
AMN SSSR prof. A.I. Cherkas) Ukrainskogo nauchno-issledovatel'skogo
sanitarno-khimicheskogo instituta.
(COBALT, toxicity,
antidote, sodium 2,3-dimercaptopropanesulfonate (Rus))
(SULFHYDRYL COMPOUNDS, effects,
sodium 2,3-dimercaptopropanesulfonate, on exper. cobalt
pois. (Rus))

LUGANSKIY, N.I., prof., red.; PETRUN'KIN, V.Ye., kand.khim.nauk, red.;
RODIONOV, P.V., prof., red.; CHERKES, A.I., prof., red.;
LOKHMATYY, Yu.G., tekhnicheskiy red.

[Thiol compounds in medicine; proceedings of a conference at
Kiev, December 16-19, 1957] Tiolovye soedineniya v meditsine;
trudy nauchnoi konferentsii, Kiev, 16-19 dekabria 1957 goda.
Kiev, Gos.med.izd-vo USSR, 1959. 286 p. (MIRA 13:4)

1. Ukrainskiy nauchno-issledovatel'skiy sanitarno-khimicheskiy
institut. 2. Chlen-korrespondent AMN SSSR (for Cherkas).
(THIOLS--THERAPEUTIC USE)

GOREV, N.N., otv.red.; MAKARCHENKO, A.F., red.; CHERKES, A.I., red.;
GUREVICH, M.I., doktor med.nauk, red.; FROL'KIS, V.V., doktor
med.nauk, red.; KONDRATOVICH, M.A., kand.med.nauk, red.; SNEZHIN,
M.I., red.izd-va; YEFIMOVA, M.I., tekhn.red.

[Problems in the physiology and pathology of coronary circulation]
Voprosy fiziologii i patologii koronarnogo krovoobrashcheniia.
Kiev, 1960. 149 p. (MIRA 13:7)

1. Akademiya nauk USSR, Kiyev, Institut fiziologii. 2. Deystvi-
tel'nyy chlen AMN SSSR (for Gorev). 3. Chlen-korrespondent AN USSR
(for Makarchenko). 4. Chlen-korrespondent AMN SSSR (for Cherkas).
5. Institut fiziologii im. A.A.Bogomol'tsa AN USSR (Kiyev) (for
Gurevich). 6. Kiyevskiy meditsinskiy institut im. A.A.Bogomol'tsa
(for Frol'kis).

(CORONARY VESSELS)

DOMBROVSKAYA, A.M.; KREMENTULO, V.A.; CHERKES, A.I.

Pirilen is a new ganlion-blocking drug. Vrach. delo no.12:102-107
D '60. (MIRA 14:1)

1. Kafedra farmakologii (zav. ~ deystvitel'nyy chlen AMN SSSR, prof.
A.I.Cherkas) Kiyevskogo meditsinskogo instituta.
(AUTONOMIC DRUGS) (PIPERIDINE)

CHERKES, Aleksandr Il'ich; MEL'NIKOVA, Valentina Fedorovna; SLASTEN, M.I.,
red.; GITSHEYN, A.D., tekhn. red.

[Manual on drug therapy] Posobie po farmakoterapii. Kiev, Gos.
med. izd-vo USSR, 1961. 551 p. (MIRA 14:11)
(MEDICINE—FORMULAE, RECEIPTS, PRESCRIPTIONS)

CHERKES, A.I.

ABRAMOVA, Zh.I., kand. med. nauk; ANICHKOV, S.V., prof.; BELEN'KIY, M.L.,
prof.; VAL'DMAN, A.V., doktor med. nauk; VEDELEYEVA, Z.I., kand.
med. nauk; VINOGRADOV, V.M., kand. med. nauk; GERSHANOVICH, M.L.,
kand. med. nauk; GINETSINSKIY, A.G., prof.; GORBOVITSKIY, S.Ye.,
prof.; GREBENKINA, M.A., dotsent; GREKH, I.F., dots.; DENISENKO,
P.P., kand. med. nauk; D'YACHENKO, P.K., kand. med. nauk; ZHESTYANIKOV,
V.D., kand. med. nauk; ZAUGOL'NIKOV, S.D., prof.; ZEYMAL', E.V., kand.
med. nauk; ISKAREV, N.A., kand. med. nauk; KARASIK, V.M., prof.;
KIVMAN, G.Ya., kand. med. nauk; KOZLOV, O.D., kand. med. nauk; KROTOV,
A.I., doktor veter. nauk; KUDRIN, A.N., doktor med. nauk; LAZAREV, N.V.,
prof.; LAPIN, I.P., kand. med. nauk; MEL'NIKOVA, V.F., prof.;
MESHCHERSKAYA, K.A., prof.; MIKHEL'SON, M.Ya., prof.; MOSHKOVSKIY,
Sh.D., prof.; PADEYSKAYA, Ye.N., kand. med. nauk; PARIBOK, V.P., prof.;
PERSHIN, G.N., prof.; PLANEL'YES, Kh.Kh., prof.; PONOMAREV, G.A.,
prof.; POSKALENKO, A.N., kand. med. nauk; MUKHIN, Ye.A., dots.;
ROZOVSKAYA, Ye.S., dots.; RYBOLOVLEV, R.S., starshiy nauchnyy sotr.;
SALIYAMON, L.S., kand. med. nauk; SAFRAZBEKYAN, R.R., kand. biol. nauk;
TIUNOV, L.A., kand. med. nauk; TOMILINA, T.N., dots.; FELISTOVICH,
G.I., kand. med. nauk; FRUYENTOV, N.K., kand. med. nauk; KHAUNINA,
R.A., kand. med. nauk; TSYGANOV, S.V., prof.[deceased]; CHERKES, A.I.,
prof.;

(Continue on next card)

ABRAMOVA, Zh.I.---(continued) Card 2.

CHEPNOV, V.A., doktor med. nauk; SHADURSKIY, K.S., prof.;
YAKOVLEV, V.Ya., doktor khim. nauk; MASHKOVSKIY, M.D., red.;
NIKOLAYEVA, M.M., red.; RULEVA, M.S., tekhn. red.; CHUNAYEVA,
Z.V., tekhn. red.

[Manual on pharmacology] Rukovodstvo po farmakologii. Leningrad,
Medgiz. Vol.2. 1961. 503 p. (MIRA 15:1)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for
Anichkov, Karasik, Cherkes). 2. Chlen-korrespondent Akademii medi-
tsinskikh nauk SSSR (for Belen'kiy, Ginetsinskiy, Moshkovskiy,
Planel'yes).

(PHARMACOLOGY)

TRINUS, F.P.; CHERKES, A.I.

Pharmacology of the smooth musculature of the blood vessels. Vest.
AMN SSSR 16 no.12:74-79 '61. (MIRA 15:2)

1. Kiyevskiy meditsinskiy institut.
(BLOOD VESSELS) (PHARMACOLOGY)

CHERKES, A.I.; DMITRIYEVA, N.M.

Dependence of the pharmacodynamics of cardiac glycosides on
the functional state of the organism. Uch.zap. Inst. farm.
i khimioter. AMN SSSR 3:301-315'63. (MIRA 16:9)

1. Chair of Pharmacology of the Kiyev Medical Institute.
(CARDIAC GLYCOSIDES)

USSR / Farm Animals. Cattle

Q

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21462

Author : Konyukhov N. A., Cherkes A. L.

Inst :

Title : On Solar Radiation as a Zooclimatic Factor (O solnechnoy radiatsii kak zooklimaticheskoy faktore)

Orig Pub: Tr. Kazakhsk. n.-i gidrometeorol. in-ta, 1957, vyp. 8, 100-104

Abstract: The results of the observations of the influence of the intensity of solar radiation on the condition and behavior of sheep are discussed. On the flat lowland pastures (altitude 200-600 m.), on fair sunny days with low wind, air temperature at 25°C and over proved to be unfavorable for sheep. At the altitude of 2,200-2,500 m., in similar weather, the air temperature of 17-18°C was found to be not suitable for sheep.

Card 1/2

USSR/ Farm Animals. Cattle

Q

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21462

Abstract: This phenomenon was due to the increase of radiation in proportion to the increase in altitude. From this, it may be concluded that the higher the pasture is situated above sea level, the lower becomes the temperature limit unfavorable for the sheep.

Card 2/2

CHERKES, B. Z., KLEYNER, E. M., KHOKHLOVA, A. S., ORLOVA, N. V.,
ZAYTSEVA, Z. M., ALKHANDYAN, S. I. and MINDLIN, S. Z. (USSR)

"Synthesis of Oxtetracycline in Inactive Mutants of *Actinomyces
rimosus*."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

CHEKES, D.S.

ca

14

Waste waters of the coal-enriching plants. D. S. Cherkas. *Vedornabazhenie Samit. Tekh.* 1939, No. 4-5, 89-91; *Khm. Referat. Zhur.* 1939, No. 9, 81. The dynamics of the pptn. of the suspension in the waste waters of the coal-enriching plants of the Donbass region were investigated by the method of volumetric detns. The possibility of the purification of waste waters by settling was detd. The bulk of the suspended mass (93-97%) settled during 1 hr. For a complete settling 4-6 hrs. or more was required. From the sanitary point of view the 1-hr.'s settling was sufficient. The vol. of the 2-hr. residue was 5-6.5% of the vol. of the settling liquid. The amt. of water in the residue was 52-96% and the sp. gr. of the residue was 1.147-1.17. Approx. 33% of the amt. of water contained in the slime sepd. from the draining layer every 24 hrs. W. R. Henn

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGION	STY	DESYN	CLASS	NO.	DATE	AUTHOR	TITLE	ABSTRACT	NOTES
1	2	3	4	5	6	7	8	9	10
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71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

CHERKES, F.K.; FROLOVA, N.I.

Role of a pathogenic enteric bacillus in the etiology of gastrointestinal diseases in infants. Zhur. mikrobiol. epid i immun. 31
no.6:74-77 Je '60. (MIRA 13:8)

1. Iz Sanitarno-epidemiologicheskoy stantsii Kuybyshevskogo rayona
Moskvy.

(MOSCOW--ESCHERICHIA COLI)

FROLOVA, N.I.; CHERKES, F.K.

Material on the antibiotic sensitivity of pathogenic serotypes of
E. coli. Antibiotiki 6 no.3:280-281 Mr '61. (MIRA 14:5)

1. Sanitarno-epidemiologicheskaya stantsiya (glavnyy vrach B.A.
Ginapurg) Kuybyshevskogo rayona Moskvyy.
(ESCHERICHIA COLI) (ANTIBIOTICS)

CHERKES, F.K.; FROLOVA, N.I.

Characteristics of enteropathogenic *Escherichia coli*
isolated in 1959. Report No. 2. Zhur. mikrobiol., epid.
i immun. 40 no.2:106 F '63. (MIRA 17:2)

1. Iz sanitarno-epidemiologicheskoy stantsii Kuybyshevskogo
rayona Moskvyy.

FRELOVA, N.N.; CHERKES, F.K.

Results of the mass utilization of the polyvalent dysentery
bacteriophage. Zhur.mikrobiol., epid. i immun. 22 no.3:122-125
Mr '65. (MIRA 18:6)

1. Sanitarно-epidemiologicheskaya stanitsiya kyryshevskogo rayona,
Moskva.

L 43944-65 EWA(b)-2/EWA(j)/EWT(1) Pa-4 RML/JK

ACCESSION NR: AP5008022

S/0016/65/000/003/0143/0143

AUTHOR: Frolova, N. I.; Vayntraub, E. A.; Voronina, T. P.;
Cherkes, E. K.; Spasskaya, Z. N.; Supranyuk, A. K.

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TITLE: Characteristics of salmonella⁶ isolated in the Kuibyshev
rayon of Moscow during 1961-1963

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no.
3, 1965, 143

TOPIC TAGS: epidemiology, Moscow, salmonella, bacteriologic culture,
method, serologic test, gastroenteritis, food poisoning, antibiotic,
levomycetin, streptomycin, biomyxin

ABSTRACT: The results of a microbiological study and serologic
identification of 186 strains of salmonella isolated during 1961-1963
in the Kuibyshev rayon of Moscow are given. Salmonella were
isolated from 135 persons including 37 healthy food plant workers
and 87 persons with a diagnosis of acute gastroenteritis or food
poisoning. All isolated cultures displayed typical morphological and
biochemical properties. Most of the salmonella strains belonged to

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serologic groups B (51.1%) or D (29%) with *S. typhimurium* (61.6%) dominant in group B and *S. typhi* (92.3%) dominant in group D. Sensitivity of the 156 salmonella strains to biomycin, streptomycin, and levomycetin was determined. The salmonella were least sensitive to biomycin (19.9%), more sensitive to streptomycin (57%) and most sensitive to levomycetin (88.4%). Orig. art. has: None.

ASSOCIATION: Sanitarно-epidemiologicheskaya stantsiya Kuybyshevskogo rayona Moskvyy (Sanitation and Epidemiological Station of the Kuibyshev rayon of Moscow)

SUBMITTED: 08Jan64

ENCL: 00

SUB CODE: LS

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OTHER: 000

Card 2/2 *mb*

FROLOVA, N.I.; CHERKES, F.K.; VAYNTRAUB, F.A.; VORONINA, T.P.; MONASZON, R.I.;
SPASSKAYA, Z.N.; SUPRONYUK, A.K.

Authors' abstracts. Zhur.mikrobiol., epid. i immun. 42 no.2:141
F '65. (MIRA 18:6)

1. Sanitarno-epidemiologicheskaya stantsiya Kuybyshevskogo
rayona Moskvyy.

CHERKES, G. A.

118

The dynamics of blood glycogen. I. The glycogen content of the blood and its alterations after sugar ingestion. G. A. Cherkov. *J. Physiol.* (U. S. S. R.) 25, 162-6 (in English, 1970) (1938). The blood glycogen (I) of healthy humans, rabbits and guinea pigs varies within the ranges 13-45.1, 10.17-43.8 and 18.4-25.8 mg. %, resp. Ingestion of sugar results in a rise in I. The rate of increase in blood sugar (II) is greater than that of I, and I returns to normal before II. The maxima of I and II do not always coincide. II. The influence of insulin and adrenaline upon the glycogen content of the blood. *Ibid.* 167-9 (in English, 1970) (1938). Insulin decreases I, but to a lesser extent and at a slower rate than the decrease in II. Adrenaline increases I but to a much less extent than the increase in II. S. A. Karjala

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

CHEKES, G.A.

Alimentary toxicosis caused by cereals. VI. Nitrogen and carbohydrate metabolism in alimentary toxicosis. G. A. Cherkas. *Arch. sci. biol.* (U. S. S. R.) 57, No. 1, 23-38 (1910); cf. *C. A.* 32, 07009.—In prolonged feeding of rabbits on a toxicosis-producing diet (maize or millet with an addn. of milk and vitamins) the elimination of total N, urea and amino acids is increased. NH_3 is normal. The pH of the urine increases on a maize diet, while on millet it remains normal. The blood-sugar fluctuations are normal but less intense than on a balanced diet.

T. Laane

T. Lander

ASME-SEA METALLURGICAL LITERATURE CLASSIFICATION

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CHERKES, G. A.																									
11-H																									
Effect of nicotinic acid on blood coagulation. L. A. Cherkas, G. A. Cherkas, and A. N. Brill. <i>Izv. Akad. Nauk SSSR, Ser. Med.</i> 14, No. 11/12, 50-53 (1942). Administration of nicotinic acid caused a marked decrease in clotting time. The hypercoagulability was directly associated with a decrease in blood platelets. The action of nicotinic acid is attributed to its ability to destroy the platelets. Nicotinic acid was effective in stopping hemorrhage in 2 hemophiliacs after tooth extr.																									
ASAC-5LA METALLURGICAL LITERATURE CLASSIFICATION																									

YERKES, L. A.

USSR.

Methylation of nicotinic acid in hypothyroidism. G. A. MD
 Cherkas (Inst. Nutrition, Acad. Med. Sci. U.S.S.R.,
 Moscow). *Voprasy Fitologii* 13, No. 1, 12-14 (1954).
 Guinea pigs, 160-70 g. body wt., were fed a diet contg.:
 casein 18%, cornstarch 63%, sunflower oil 14%, a salt
 mixt. 6%; vitamins of group B were supplied by feeding
 0.5 g. yeast daily and vitamins A, D, and E in the units of
 20 I.U., 8 I.U., and 1 mg./week, resp. Hypothyroidism
 was produced by feeding 20 mg. thiouracil (0.1% of the
 diet)/day/animal. methionamide (I) (20 mg. in 0.25 ml.
 distd. water) was introduced into the esophagus directly.
 The results indicated that in hypothyroidism the excretion
 of *N*-methylnicotinamide (II) in urine is normal (70-90 and
 48-64 γ II at the 3rd and 11th day, resp.), but when the
 animals received an excess of I (20 mg.) the amt. of II ex-
 creted was lower than that excreted by normal guinea pigs.
 P. V. Cherkas

Lab. Exptl. Pathology

CHERKES, G.A.

Sources of methyl groups in the formation of N'-methylnicotinamide in the organism [with summary in English]. Biokhimiia 23 no.3:401-404 My-Je '58 (MIRA 11:8)

1. Laboratoriya patologicheskoy fiziologii Instituta pitaniya AMN SSSR, Moskva.

(NICOTINIC ACID, rel. cpds.

N'-methylnicotinamide, eff. of starvation & protein defic. on biosynthesis (Rus))

(PROTEINS, deficiency,

eff. on N'-methylnicotinamide biosynthesis (Rus))

(STARVATION, experimental,

same (Rus))

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Factors determining development of protein toxicosis.
 L. A. Chazkes and N. Dukler. *Bull. bio. med. expt. U.*
 R. S. S. 1, 90-101 (1930); *Physiol. Abstracts* 21, 750;
 cf. C. A. 31, 3530. White mice fed on an exclusively
 protein diet die in a few days. Pathol. changes, involving
 necrosis in kidney and liver, are described. Addn. of the
 vitamin B group abolishes this toxic action; the B factor
 responsible is considered to resemble the Y factor of Chick
 and Copping (cf. C. A. 25, 2750), or B₆ of György (cf.
 C. A. 29, 5491).
 E. Bame

COMMON ELEMENTS

COMMON VARIABLE

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

112

NEW COMPONENTS OF FOODSTUFFS (ALITOXINS) AND PATHOLOGICAL PROCESSES CONNECTED WITH THEM. L. A. Cherkes. Arch. sci. biol. (U. S. S. R.) 40, No. 2, 1990 (in English) 9-10 (1990). Toxicon produced by cereals. Ibid. 41, No. 2, 13-20 (in English 1990) (1990); cf. C. I. 31, 1838. W. A. Perlberg

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

CP

11E

Pathological processes induced by insufficient food-protein supply. III. Morphological changes in the organs. M. M. Tischenhausen and L. A. Cherkes. *Bull. bio. med. expl. U. R. S. S. 4, 859-5(1937)* (in English).-- Adult rats on a diet of 200 g. of starch, 35 g. of sunflower oil, 10 g. of cod-liver oil, 10 g. of McCollum's salt mixt. and 400 g. of H₂O given *ad libitum* with 0.5 g. of yeast (contg. 4 mg. of N per day as a source of the vitamins of the B group) developed parenchymal degeneration and granular disintegration of the epithelium of the kidneys, with urinary casts in cases of prolonged protein starvation. A distinct picture of glomerulo-tubular nephritis is obtained. An increase in fat deposition in the liver was observed but no correlation could be noted between the degree of fat deposition and protein starvation.

S. A. Kariala

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1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										MATERIALS INDEX																									
Vitamins and their role in nutrition. L. A. Cherkes. <i>Klin. Med. (U. S. S. R.)</i> 15, 1047-57 (1937); <i>Chem. Zvezd.</i> 1938, 1, 4350. Permanent injuries resulting from vitamin and protein deficiencies and persisting even after long periods on a normal diet are discussed. Weakening of the ability to resist infection, derangement of certain organic functions, and shortening of the life span can, under certain conditions, be due to permanent injury, especially to the mesenchyme and nervous system, as the result of an insufficient supply of high-quality protein and vitamins during the period of growth. M. G. Moore																																																			
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			

This image shows a single frame from a microfilm reel, which is a standard 35mm film strip used for storing digital information. The frame is rectangular and filled with a dense grid of small, circular punch holes. These holes are arranged in rows and columns, forming a coordinate system for reading the data stored on the film. In the center of the frame, there is a larger, slightly darker rectangular area. This area contains some very faint, blurry markings that appear to be remnants of text or graphics from a previous frame, but they are not legible. The overall appearance is that of a technical document or a piece of archival material.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
118 Avitaminosis and the digestive organs. L. A. Cherkas <i>Uspekhi Sovetskoi Biol.</i> 11, No. 1, 54 (1968); <i>Chem Zentr.</i> 1968, 1, 77; cf. C. A. 34, 2805. --A review on secondary endogenous diseases caused by deficient resorp- tion of vitamins A, B₁, B₂ complex, C, D, and K as a re- sult of pathol. conditions in the digestive tract. M. G. Moore																			
ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
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1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSING AND PROPERTY INDEX																																																			
Effect of nicotinic acid on the blood sugar level and its relationship to adrenaline hyperglucemia. I. A. Chetkov, and R. L. Rozenfeld. <i>Biokhimiya</i> 6, 58 (in English), 66 (1941). Large doses (1 g.) of nicotine acid injected into rats cause hypoglycemia and inhibit the course of adrenaline-induced hyperglucemia. Small doses do not affect the blood-sugar level. T. Laanes																																																			
ASB-55-A METALLURGICAL LITERATURE CLASSIFICATION																																																			

11-H

CA

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Eugene Roberts

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